

Re: ET Docket No. 03-137 and WT Docket No. 12-357
Re: FCC Rule Making Regarding Aircraft
And Other Public Transit

Dear members of the FCC Board:

On behalf of Green Swan Inc., and as an expression of my personal views, I write with great science based urgency to object to any federal rule making which mandates or allows the installation of Wi-Fi or other microwave routers in metal public conveyances, such as commercial aircraft. I respectfully request that Staff read the substantial scientific references and data contained herein.

First, Staff and this Board must please consider that the subject matter under review involves the installation and use of hundreds of microwave devices, in addition to the routers involved, within the Faraday Cage which is established by the exterior skin of the aircraft involved.

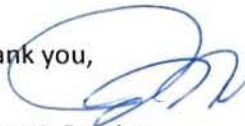
A Faraday cage is established whenever there is the construction of a shell made of conducting material or by a mesh of such material. While it is true that a Faraday Cage blocks external EMF sources, it is also the case that the Faraday Cage works in reverse, causing the shielding to keep such discharges bouncing continuously within the "cage" involved, in this instance an alloy skinned aircraft passenger enclosure.

This approach, if allowed, would not only house the router signal within the Cage, but will also contain, and bounce, all of the EMF signal from all other "on condition" cellular and wi-fi devices within the aircraft hull involved. This then will cause all living tissue, DNA tissue, within the aircraft to be constantly penetrated by multi-axial high speed pulsed microwave signal. It is beyond rational dispute that this will cause DNA damage.

The effects of cellular radiation on living tissue continue to haunt us; from government, to industry down to the individual consumer. Scientific studies have ranged from proof of a twenty-four fold SAR in the brain and other DNA tissues as compared to inert materials,ⁱ to sperm count collapse from proximity of exposure,ⁱⁱ to fetal damage related to maternal cell exposure during pregnancy.ⁱⁱⁱ

In addition, the work of Dr. Henry Lai, along with the work of many other fine scientists, has shown that cellular frequency microwave signal causes DNA strand breakage. This should be impermissible where a "captive audience" of passengers is involved, particularly children, whom are uniquely susceptible to this radiation due to lesser skull thickness, smaller head size (resulting in concave focus) and higher hydration. I particularly draw to your attention the recently published findings in the BioInitiative 2012 Report (<http://www.bioinitiative.org/>), and incorporate the findings shown in that fine report herein as though more fully set forth.

Thank you,



Jean M. Bowler

COO Green Swan, Inc.

ⁱ Mays Swicord, PhD, University of Maryland 1983 study showing a 24X increase in SAR in DNA.

Om P. Gandhi, PhD, "Electromagnetic Absorption in the Human Head and Neck for Mobile Telephones at 835 and 1900 MHz," IEEE, October 1996.

BioInitiative 2012 Report, et al.

ⁱⁱ Institute de Veille Sanitaire, 2012 French study on sperm count collapse.

BioInitiative 2012 Report, et al.

ⁱⁱⁱ Yale University study showing fetal damage from cell phone radiation exposure during pregnancy, 2012, et al.